Ex No: 11a) Static Bouting In Cisco Packet Trocer

To configure and verify Static routing in Cisco packet tracer using main and backup routy

Steps.

- 1. Open Packet Tracer:
- · Drag and drop 3 routes
- · Connect them with PCs and assign IP addresses to interfaces as per the given network
- 2. Identify Networks
- · Bouter O(RO): 10.0.0.0/8
- · Routex1 (RI): 20.0.0.0/8
- · Router 2 (R2): 40.0.0.0/8
- 3) Configure Static routes on Router O

configure terminal ip route 30.0.0.0.0

ip rout 50.0.0.0 state straids it waste a) configure static traver, on enable Configure territors) x 30000 100000 up moudo 10.0.0. ip 2000 40-0-0 state etuar quale 5) Configure State rates on raise enable Consignated territorial ap troude 10-0-0.0 Sp traits 30.0.0.0 state auor de mode 6) verily fouting · Use ping to test connectivity. between per in different network lautor aft source of tooset ell. reduct study. 7. Test Book Boute · Disconned the main link Try pinging again -

Router1

Physical Coolin CLI Amibutes

IOS Command Line Interface

Router>enable Router (configuration commands, one per line. End with CNTL/Z. Enter configuration commands, one per line. End with CNTL/Z. Enter configuration commands, one per line. End with CNTL/Z. Router (config) *ip route 10.0.0.0 255.0.0.0 20.0.0.1 20 backup route Router (config) *ip route 10.0.0.0 255.0.0.0 50.0.0.1 10 main route Router (config) *ip route 40.0.0.0 255.0.0.0 50.0.0.1 20 backup route Router (config) *ip route 40.0.0.0 255.0.0.0 50.0.0.1 20 backup route Router (config) *ip route 40.0.0.0 255.0.0.0 50.0.0.1 Router (config) fexit Router#show ip route static
S 10.0.0.0/8 [10/0] via 20.0.0.1 Only main routes are
S 40.0.0.0/8 [10/0] via 20.0.0.1 added to the routing table.

Routers

Router0

Physical Config CLI Attributes

105 Command Line Interface

Router>enable Router configuration commands, one per line. End with CNTL/Z.

Router (config) ip route 30.0.0.0 255.0.0.0 20.0.0.2 10 Primary route

Router (config) route 30.0.0.0 255.0.0.0 40.0.0.2 20 Backup route

Router (config) route 30.0.0.100 255.255.255.255 40.0.0.2 10 Primary route

Router (config) route 30.0.0.100 255.255.255.255 20.0.0.2 20 Backup route

Router (config) route 50.0.0.0 255.0.0.0 40.0.0.2 10 Primary route

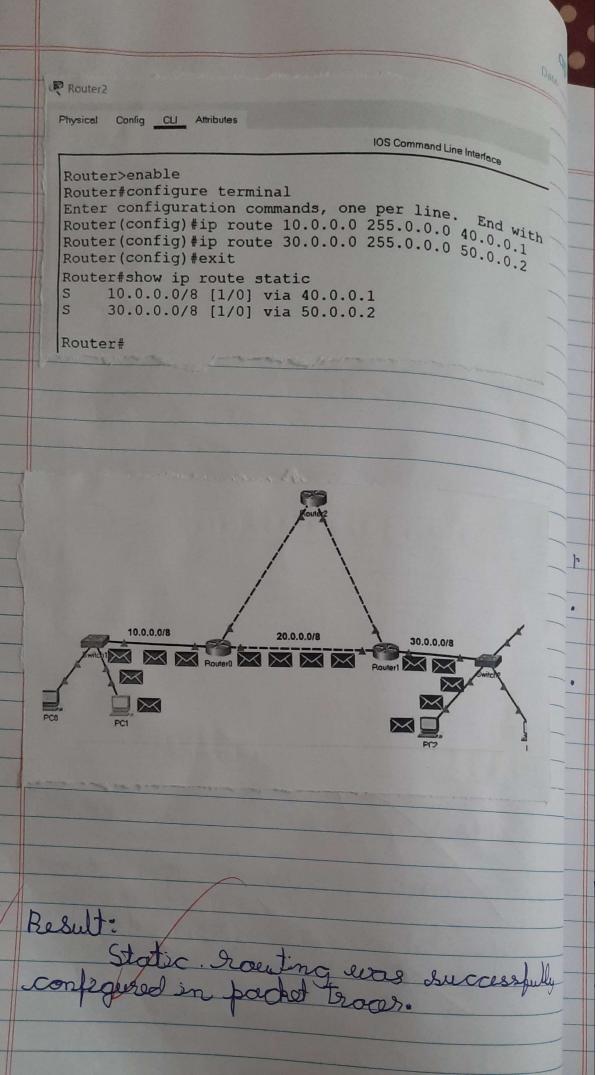
Router (config) route 50.0.0.0 255.0.0.0 20.0.0.2 20 Backup route

Router (config) route 50.0.0.0 255.0.0.0 20.0.0.2 20 Backup route Router(config) #exit Router#show ip route static

30.0.0.0/8 is variably subnetted, 2 subnets, 2 masks 30.0.0.0/8 [10/0] via 20.0.0.2 Router adds only primary routes 30.0.0.100/32 [10/0] via 40.0.0.2 to the routing table. 50.0.0.0/8 [10/0] via 40.0.0.2

Router#

Page No.: __



Ex No: 1160 RIP. Rawling in Casco. Packet Tracer.

(Routing information protocol) in Cisco Rocket mader

Steps:

RI

r Notwork Setup

· Add 3 routers (ROSRISR2) and 2 PCS(PCD)

· Connect them as per table

50/01,

Duric	e Interface	IP address Connector
PCO	FastEthernet	10-0-0-2/8 Ro Fach
RO	/Fa0/1	10:0.0-1/8 PCO
RO	50/0/0	192-168-1-249/30 R150/cb
RO	50/010	192.168.1.254/30 R 2 50/06
ROI	30/0/0	192-168-1-246/30 R2340

192.168-1-24-6/30 RZSde

2) Assign IP address: enable Consiguro terminal interface fost Ethernet (1) ib address 10.0.0.1 no shutdown interface serial 0/0/0 46 address . 19 2. 168.1.249 clock rate 640.00 bondwidth 64 no shutdown Carit 3 Enable RIP routing protocal. · Router O nouter rip network 10.0.0.0 network -19 2.168-1.248 retwork 192. 168.1-252 · Router 1/ router rip network -192-168-1-248 network 192. 168.1-244 · Router 2 router rip network 20-0-0.0

network 192.168.1.252

4) verify Configuration:

- · Use Shall ip route
- From PCG, ping 20-0-0-2 (PCI) to check connectivity
- · Use tracert 20.0.0.2
- 5) Test Automatic Factover!
- · By default, RIP selects the path with fewer hops
 - · Disconnect the link RO-RZ

· Use ping or tracert again

Command Prompt

Packet Tracer PC Commend Line 1.0

FastEthernetO Connection: (default port)

Link-local IPv6 Address:....: FE80::260:70F3

PC>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Request timed out.

Reply from 10.0.0,2: bytes=32 time=3ms TTL=126 Reply from 10.0.0.2: bytes=32 time=3ms TTL=126 Reply from 10.0.0.2: bytes=32 time=3ms TTL=126

Ping statistics for 10.0.0.2:

Packets: Sent = 4, Received = 3, Lost = 1 (2 Approximate round trip times in milli-seconds:

Minimum = 3ms, Maxxmum = 3ms, Average = 3ms

Result:

RIP routing eves successfully configured.

Page No.: